

AECL COMPANY PROFILE

Atomic Energy of Canada Limited (AECL) is a fully integrated nuclear technology and services company providing products and services to nuclear utilities worldwide. AECL's Commercial Operations include reactor development, design, engineering, special equipment manufacturing, project management and construction of CANada Deuterium Uranium (CANDU®) nuclear power plants, and provision of reactor services and technical support to operating CANDU reactors.

AECL also operates Nuclear Laboratories and performs research, produces isotopes used in nuclear medicine and other applications, stores and manages nuclear wastes, and decommissions nuclear facilities. The NRU research reactor at AECL's Chalk River Laboratories has been the primary source of radioisotopes produced for use in nuclear medicine. Canada is the world's leading supplier of medical isotopes used to diagnose, prevent and treat disease in over 80 countries and produces 75% of the world's supply of Cobalt-60 used to sterilize some 40% of the world's disposable medical supplies.

CANDU nuclear reactors are AECL's flagship product. AECL's CANDU 6 reactor offers a combination of proven and state-of-the-art technology. This design has been continuously improved to reduce cost, enhance performance, and increase the plant life up to 60 years. The Enhanced CANDU 6 is a 750 MWe Class reactor and is the most current offering of the CANDU 6 product line.

AECL is developing the Advanced CANDU Reactor (ACR-1000®), the next-generation CANDU nuclear power plant that represents an evolution of the best CANDU features and incorporates up-to-date passive safety, modular design, and advanced construction techniques. ACR-1000 is a 1200 MWe class reactor that is more economic than other forms of energy production and represents state-of the-art in



Reactor Building Cutaway

advanced nuclear technology. The ACR-1000 is designed to meet and exceed Canadian and International licensing requirements.

AECL designs and builds Modular Air Cooled Storage (MACSTOR®) used fuel storage facilities. AECL also manufactures fuelling machines for CANDU reactors, designs and builds robotics and other special purpose equipment and tooling, and manages construction of nuclear plant facilities worldwide through international partnerships.

CANDU reactors produce electricity safely and in an environmentally prudent manner – with no emissions of air pollutants or greenhouse gases. CANDU reactors are currently producing safe and economic nuclear electricity in Canada, the Republic of Korea, China, Argentina and Romania.

AECL is a crown corporation that was established in 1952 to develop peaceful applications of nuclear energy. Today, we employ more than 4,000 people who are dedicated to delivering leading edge nuclear services, R&D support, design and engineering, construction management, specialized technology and waste management and decommissioning in support of CANDU reactor products.



Cernavoda, Romania, Units 1 & 2



Wolsong, Korea, Units 2, 3 & 4



Qinshan Phase III, China, Units 1 & 2

MINIMAL SCHEDULE AND COST RISK

In-Service Date	Plant	Status
1996	Cernavoda Unit 1, Romania	On budget, on schedule*
1997	Wolsong Unit 2, S. Korea	On budget, on schedule
1998	Wolsong Unit 3, S. Korea	On budget, on schedule
1999	Wolsong Unit 4, S. Korea	On budget, on schedule
2002	Qinshan Phase III, Unit 1, China	Under budget, 6 weeks ahead of schedule
2003	Qinshan Phase III, Unit 2, China	Under budget, 4 months ahead of schedule
2007	Cernavoda, Unit 2, Romania	Under construction

**as per 1991 completion contract*

ACR-1000® Next Generation CANDU Nuclear Power plant

